JAMES YOUNG, PRES. WM. H. YOUNG, VICE-PRES. AND GEN'L MANAGER.
G. J. CARTER, SEC'Y. F. S. BARTLETT, TREAS.

PAID-UP CAPITAL
$100,000.

The ⁘ Champion ⁘ Iron ⁘ Company

MINIATURE CATALOGUE

No 12.

KENTON, OHIO, U.S.A.

JAIL WORK.
STRUCTURAL IRON WORK.
IRON FENCES.
ORNAMENTAL IRON WORK.

TROUP MFG. CO., PRINTERS, DAYTON, O.

To the Public.

WE mail you this Miniature Catalogue to call your attention to our goods. Trusting that if you are in need of Builders' Iron Work, Iron Posts, Chairs, Jails, Doors, Lamp Posts, Settees, Wrought Girders, Iron Beams, Galvanized Iron Work, Veranda Columns, Iron Stairways of any design, Columns, Iron Tree Guards, Cresting—both malleable or Gray Iron, Lintels, Pumps, Fence, Stable Fixtures, Gray Iron Castings, Weather Vanes, Veranda Railing, Brackets for Balconies, Cemetery Entrances, Finials, Entrance Gates, Fire Escapes, Shutters, Gratings, Wrought Window Sash, Window Guards, Vases, you will write us.

THE CHAMPION IRON CO.,
Kenton, Ohio.

We cannot show in this catalogue but a few of the designs manufactured by us, but hope by these to interest you in our work.

Our Jail Construction is the very best that is known, and our Patent Independent Locking System cannot be equalled. We especially invite City and County Officials to correspond with us before buying.

In Structural Iron Work we are prepared to handle any class of work. **Iron Stairs both plain and ornamental a specialty.**

Iron Fences manufactured by us are unequaled. Our mode of adjusting up and down, in and out, and from foundation to top, is the result of many years of experience, and we believe it is perfect

Description of Plate No. 3 Entrance, page No. 2:

Posts 21 in. square at base; opening between posts for drive gates. 12 ft; opening for walk gates, 4 ft. 6 in.; height from ground to arch, 14 ft. Arch is made of wrought iron with cast ornamentations; shows the same front and back, and measures 10 in. across the top. *Note.*—Only made the sizes specified Any style gates can be used.

Description of Plate No. 5, page No. 3.

Suitable for Cemeteries or Court Houses. This is the general design of Drive Gates used with plain fences for public grounds. Arch will be lettered to suit.

AVERY LIBRARY
COLUMBIA UNIVERSITY

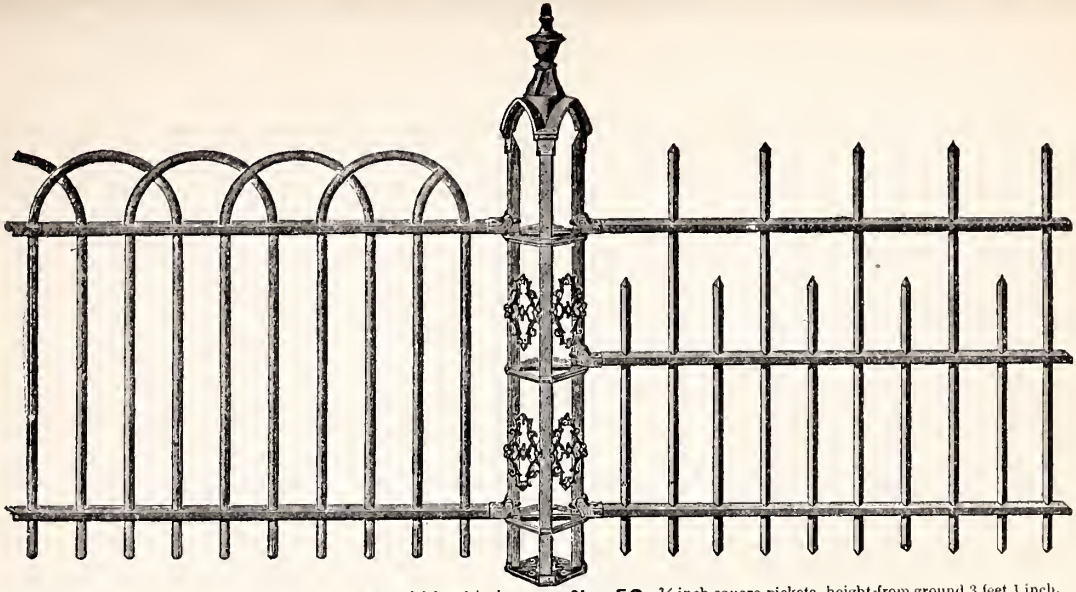
VIEW OF ENTRANCE FOR PUBLIC GROUNDS.—PLATE No. 3.

ENTRANCE GATES WITH ARCH.

Plate No. 5.

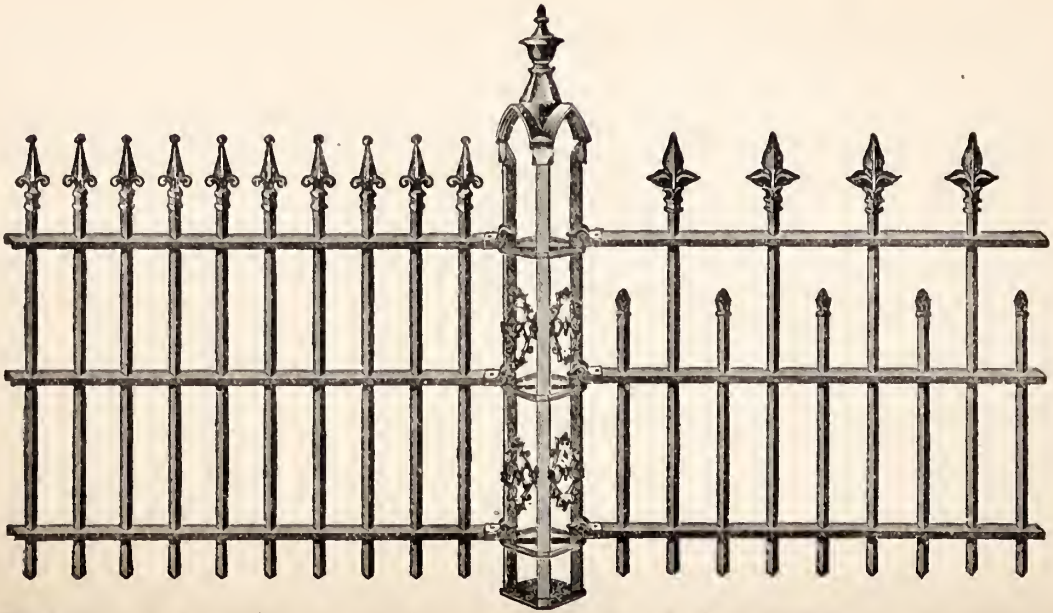
No. 46—⅜ inch round pickets height from ground 3 feet 1 inch.
No. 47—½ " " " " " 3 " 1 "

No. 44—⅜ inch round pickets, height from ground 3 feet 1 inch.
No. 45—½ " " " " " 3 " 1 "



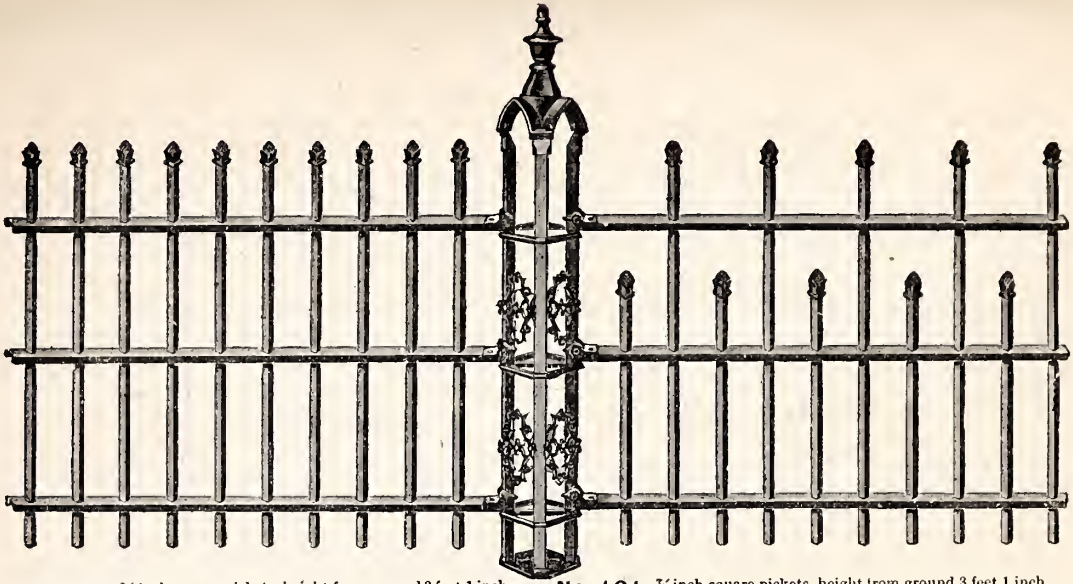
No. 50½ —⅜ inch round pickets, height from ground 3 feet 1 inch.
No. 51½ —½ " " " " " " 3 " 1 "

No. 52—⅜ inch square pickets, height from ground 3 feet 1 inch.
No. 53—½ " " " " " " 3 " 1 "
No. 54—⅝ " " " " " " 3 " 4 "
No. 55—¾ " " " " " " 4 " 0 "



No. 76—⅜ inch square pickets, height from ground 3 feet 1 inch.
No. 77—½ " " " " " " 3 " 4 "

No. 78 ½ inch square pickets, height from ground 3 feet 1 inch.
No. 79—⅝ " " " " " " 3 " 4 "



No. 97—⅜ inch square pickets, height from ground 3 feet 1 inch.
No. 98—½ " " " " " " 3 " 1 "
No. 99—⅝ " " " " " " 3 " 4 "
No. 100—¾ " " " " " " 4 " 0 "

No. 101—⅜ inch square pickets, height from ground 3 feet 1 inch
No. 102—½ " " " " " " 3 " 1 "
No. 103—⅝ " " " " " " 3 " 4 "
No. 104—¾ " " " " " " 4 " 0 "

All ¾ inch square pickets are spaced 5 inches from center to center.

GATE.—**PLATE No. 43.**

No. 120½—⅝ inch square pickets, height from ground 3 feet 1 inch.
No. 121 —½ inch square pickets, height from ground 3 feet 1 inch.
No. 122 —⅝ inch square pickets, height from ground 3 feet 4 inch.
In ordering state whether Plain or Ball Tops are wanted.

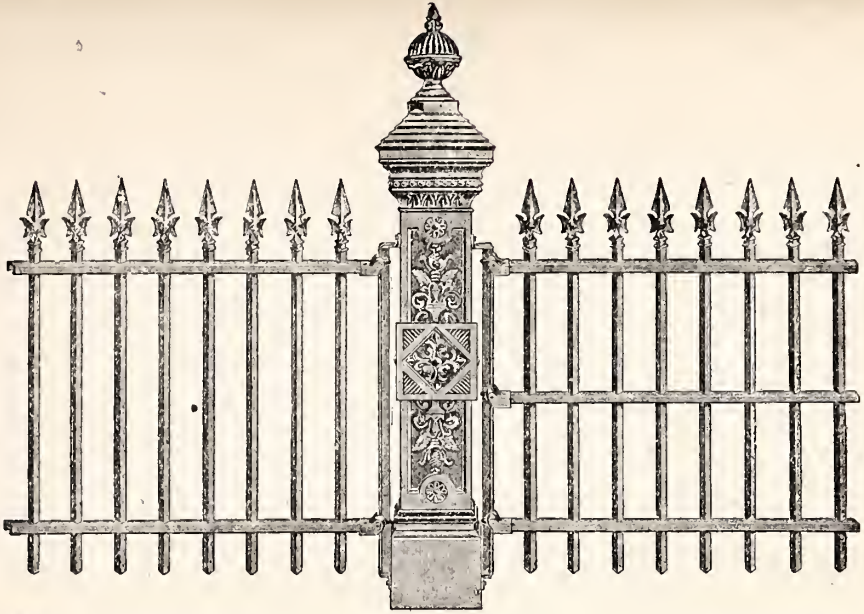
GATE.—**PLATE No. 44.**

No. 123—⅜ inch square pickets, height from ground 3 feet 1 inch.
No. 124—½ " " " " " " 3 " 1 "
No. 125—⅝ " " " " " " 3 " 4 "
No. 126—¾ " " " " " " 4 " 0 "

¾ square pickets are spaced 5 inches from center to center.

In ordering state whether Plain or Ball Tops are wanted.

No. 127—½ inch round pickets, height from ground 4 ft. 0 in.
No. 128—½ " " " " " " 4 " 0 "
No. 129—⅝ inch round pickets, height from ground 4 ft. 0 in.
No. 130—⅝ " " " " " " 4 " 0 "
Pickets in No. 128 and No. 130 spaced 4½ in. from center to center.



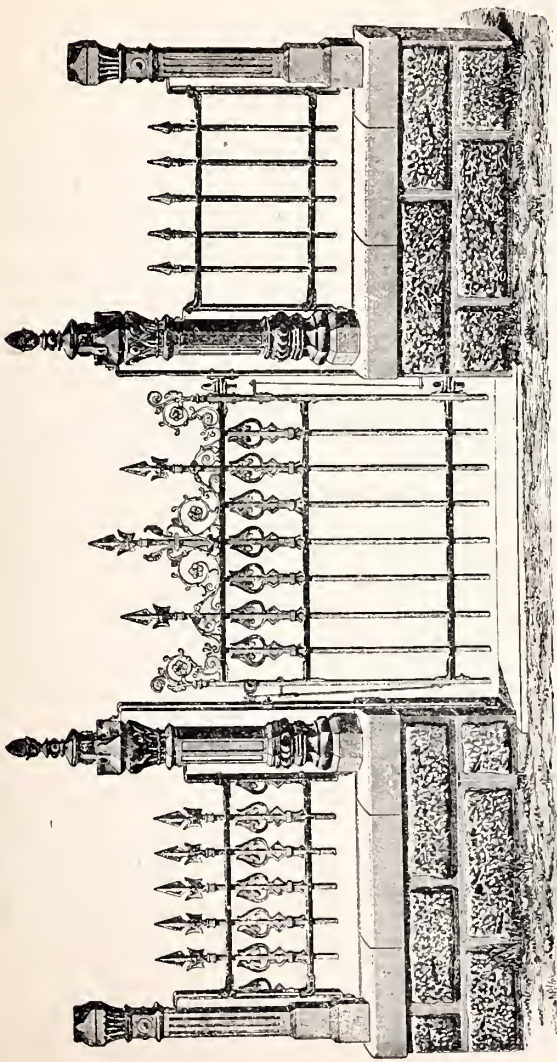
No. 139—⅝ inch square pickets, height from ground 4 feet 0 inches.
No. 140—¾ " " " " " " 4 " 0 "

No 141—⅝ inch square pickets, height from ground 4 feet 0 inches.
No. 142—¾ " " " " " " 4 " 0 "

¾ inch square pickets are spaced 5 inches from center to center.

No. 147—ALL WROUGHT IRON.
Long pickets ½ inch square, short pickets ⅜ inch square.

No. 147½—ALL WROUGHT IRON.
Scrolls ⅝x⅛, height from ground 3 feet 3 inches.



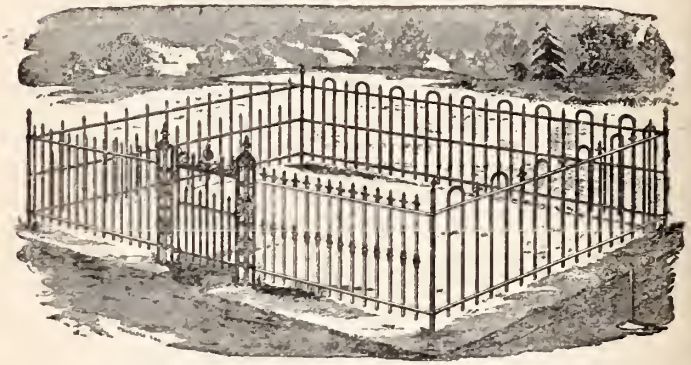
No. 160—Pickets ⅝ inch square. Height from coping 2 feet. Can be made higher. Ornaments malleable iron.

No. 161—Pickets ⅝ inch square. Height from coping 2 feet.

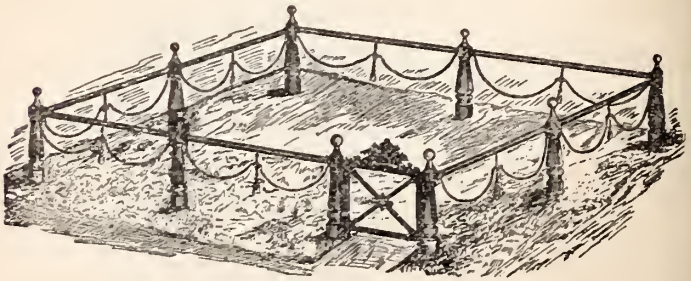
No. 162—Pickets ½ inch square. Height from coping 2 feet.

PERSPECTIVE VIEWS OF CEMETERY LOT.

SHOWING VARIOUS STYLES OF FENCES



In order to enable our Agents to furnish Railing for Cemetery Lot Enclosure at small cost to the purchaser we have devised a plan to enclose lot without using large posts at the corners.—simply connecting panels at corners with malleable iron connections, to a (⅝ of an inch) picket which runs into an iron base. This makes as good and substantial an enclosure as if large posts were used, the panels at corners bracing each way. Often large posts cost as much as fence for small jobs. Only our PUNCH FENCES can be used without corner posts. We make no extra charge for the pickets and bases used in the corners of this style of enclosure.



View of Cemetery Lot enclosed with No 67 Posts, Chain and Tassels, and No 4 Pipe Gate

No. 1.

Tree Guard Made of ⅜ and ½ inch round pickets. 14 in diameter

No. 5.

Hitching Post

No. 2.

Rustic Hitching Post

No. 4

Jockey Hitching Post Painted fancy in natural colors. height with base 50 in. base 8 in high by 14 inches square

No. 6.—Weather Vane.
6 ft. 4 in. high.

Copyrighted 1883.
No. 19.—Malleable Finial, suitable for Nos. 19 and 21 Crestings.

Copyrighted 1883.
No. 23.—Malleable Finials, suitable for Nos. 20 and 27 Crestings.

Copyrighted 1883
No. 18.—Malleable Finials, suitable for Nos. 18 and 34 Crestings.

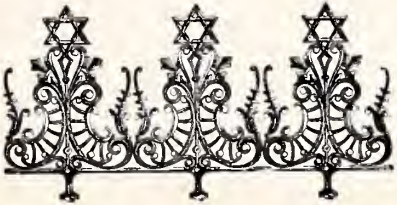
Copyrighted 1883
No. 22.—Malleable Finials, suitable for No. 22 Cresting.

Copyrighted 1883

No 23.—Malleable Cresting. 2 ft. 4 in high.

Copyrighted 1883.

No. 19.—Malleable Cresting. 2 ft. 8 in. high.

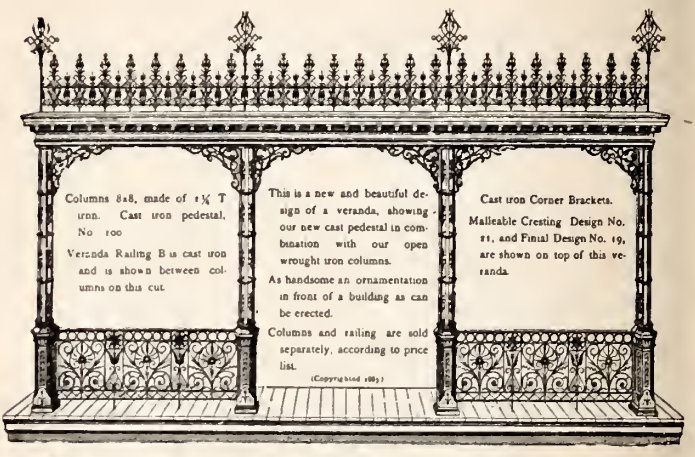


Copyrighted 1883.

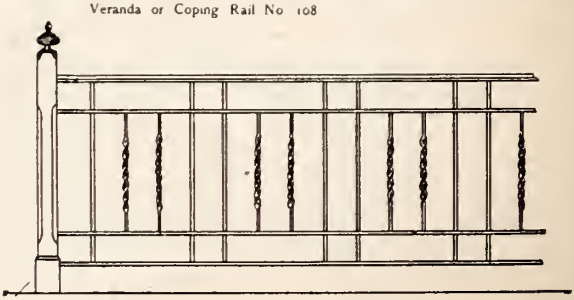
No. 18.—Malleable Cresting. 1 ft 6 in. high

Copyrighted 1883.

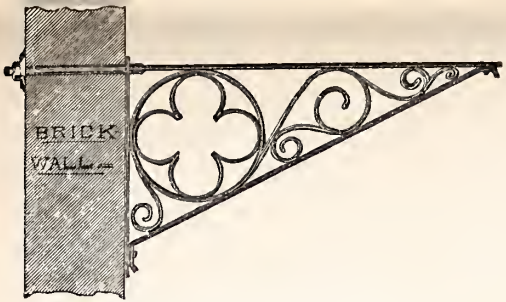
No. 24.—Malleable Cresting. 1 ft 4 in. high.


Columns 828, made of 1¼ T iron. Cast iron pedestal, No 100
Veranda Railing B is cast iron and is shown between columns on this cut.
This is a new and beautiful design of a veranda, showing our new cast pedestal in combination with our open wrought iron columns.
As handsome an ornamentation in front of a building as can be erected.
Columns and railing are sold separately, according to price list.
(Copyrighted 1885.)
Cast iron Corner Brackets.
Malleable Cresting Design No. 21, and Finial Design No. 19, are shown on top of this veranda.

Veranda or Coping Rail No 108

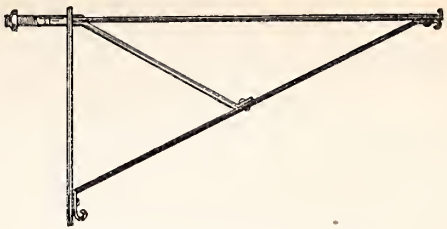


Veranda Railing, Style P.



No. 5.—ORNAMENTAL WROUGHT IRON BRACKET

Made any length Always give thickness of wall



No. 6.—PLAIN WROUGHT IRON BRACKET.

Made any length Always give thickness of wall

No. 3.—CAST IRON BRACKET.

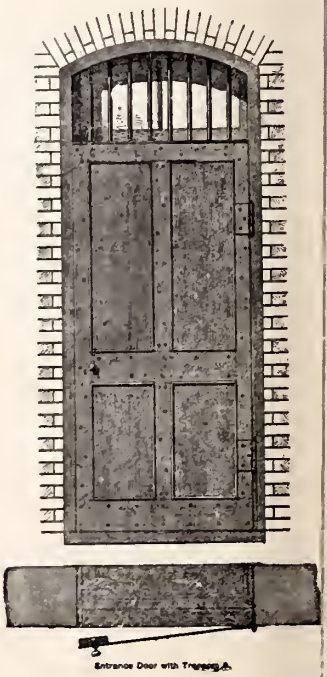
4 ft long 2 ft wide, with wrought iron bearer A very heavy bracket, suitable for hotel balconies Give thickness of wall

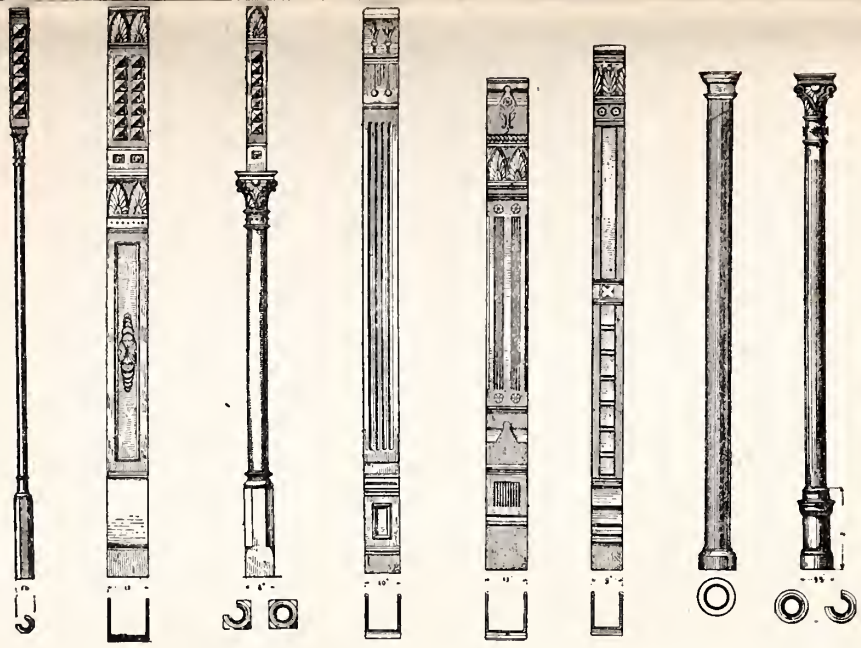
No. 1.—CAST IRON BRACKET.

33 in long. 12 in. wide With wrought iron bearer Give thickness of wall

Plate No. 4.

Plate No. 10.





123 120 121 119 112 114 109 107

All our Columns, Pilasters and Mullions are turned true at ends and to exact lengths. In ordering or writing for estimate, give thickness of metal, length of column, whether including top and bottom plates, diameter if round, width of face and depth of returns if square. Orders filled on short notice.

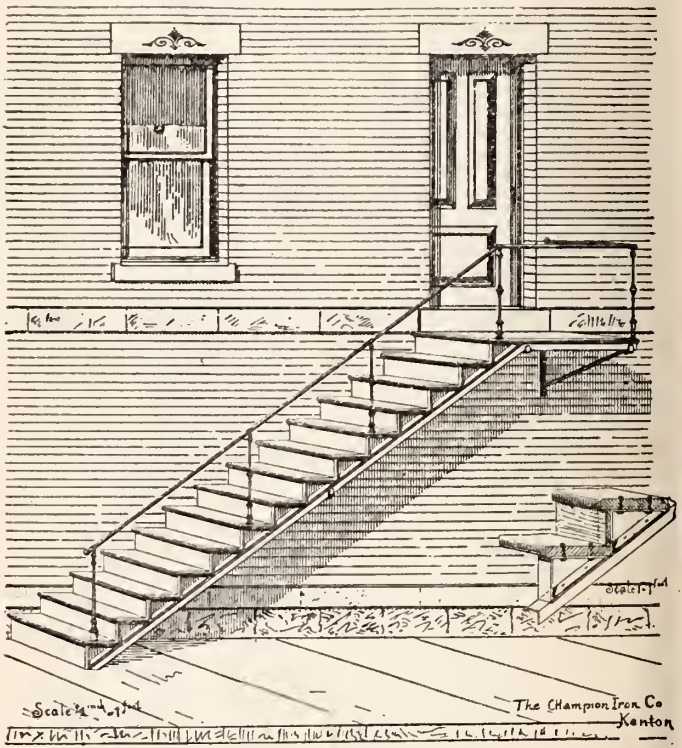


Plate J. Stairway two inch wrought angle iron Stringers with cast Brackets for wood steps.
Style C Balustrades about every fifth step Pipe Hand Rail 1½" outside No 1 Newelpost.

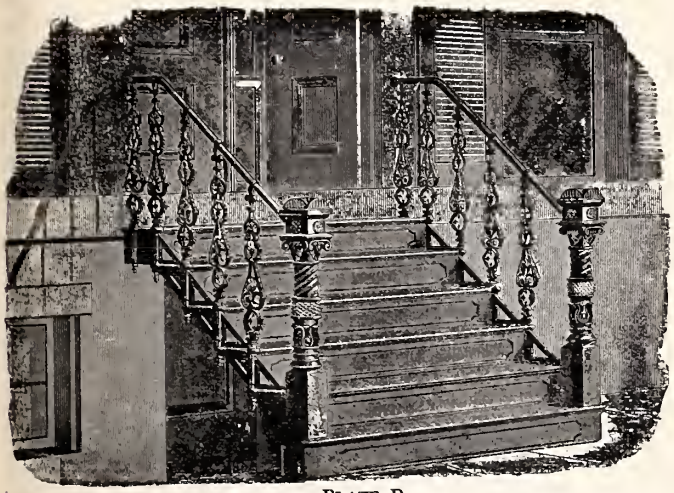


PLATE D.

A very fine stairway for private or public buildings—made any width. This cut shows a close paneled riser—No. 1 Newelpost 6 inches square at base. Balustrades Style N, or any other style balustrade can be used. When large Newelpost is used the first step is made with a projecting round corner. Any of our stairways, straight or spiral, are interchangeable, i. e. heavy or light balustrades may be used, plain paneled or perforated risers, or if cheaper stairs are wanted use half risers as shown on page 4. To save time, in asking for estimates, state specifically what you want and we have facilities to furnish a better stairway than any other manufacturer, for less money. You save fifty per cent in the cost of putting up our stairs. All our stairs are fitted up in the shop, taken apart, painted and numbered, and crated, if needed, at no extra charge. We use pipe hand rails on all stair railings of the following sizes: 1⅛ 1⅜ and 1⅞ outside diameter

PLATE G.

A very fine spiral stairway with starting steps reversed, so as to start in proper place. If not necessary, we do not reverse the steps. Any style balustrades can be used and a solid paneled riser, as shown on Plate D, can be used in place of perforated risers, as shown on this cut.

No. 2 Newelpost 2½ inches octagon is shown on this cut.

PLATE H.

Plan spiral stairway, showing balustrades C, and straight starting steps and half risers. Close paneled or perforated risers can be used.

No. 2 Newelpost 2 1-2 inches octagon is shown on this cut.

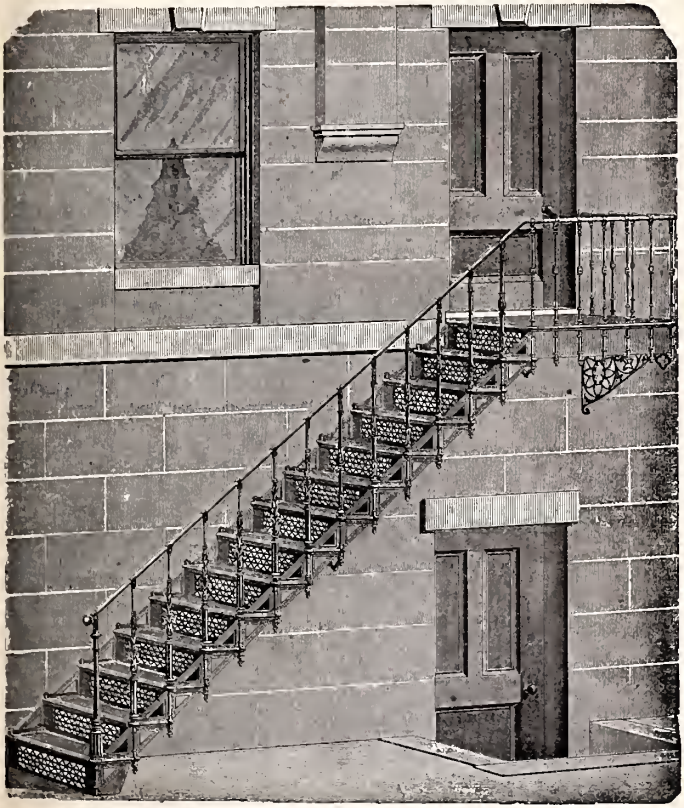
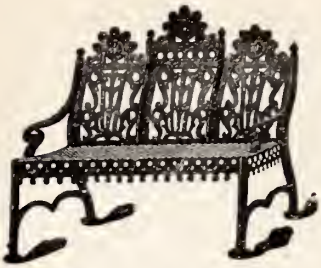


PLATE B.

Outside Stairway—hand rail without balustrades can be used same as shown on Plate C In ordering or asking for estimates state style of balustrades according to numbers on pages 10 and 11 State if perforated or close paneled risers are wanted or if half risers, same as shown on page 4 are wanted



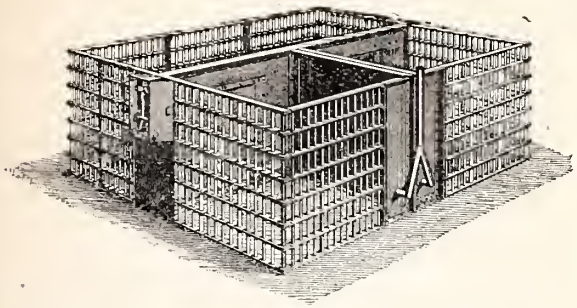
No. 8
3 seat ornamental Settee 3 ft. 7 in. long

No. 11.
Ornamental Chair

No. 9
Wrought iron leg, hard wood slats 5 ft. long. Made longer or with 3 legs to order. Best settee in the market for Parks &c. as it can not be broken.

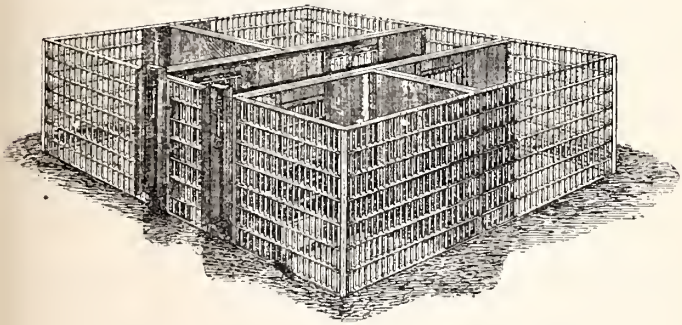
No. 1.—FLOWER VASE AND PEDESTAL.

Height of Vase and Pedestal 43 in. Height of Vase only 21½ in.
Diameter of Vase and Handles 36 in. Diameter of Vase only 27 in.
Pedestal 21½ in. high x 17½ in. square at base
One of the finest Vases made for the price.



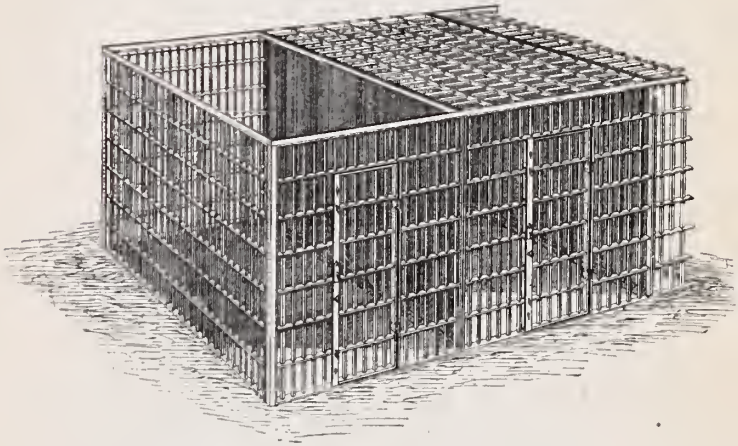
TWO CELL CAGE.

This Cage has two cells, with prisoners' corridor, and has a capacity for eight prisoners, with all sanitary arrangements.



FOUR CELL CAGE, WITH CENTRAL CORRIDOR.

The entire exterior of this cage is made of Five-ply Hardened Steel. The floors and ceilings are Five-ply Steel Plates. All corners secured with double angle iron and countersunk, riveted on inside. This cage has a capacity for sixteen prisoners. If your present jail building is good, this cage can be placed in it, with all the sanitary arrangements, without the expense of a new building.



The above Cut shows part of a section of Cells. Any number of Cells can be connected in this way,

Always give Size of Cells wanted.

We manufacture the

Barnes Iron Fence,

And claim that it is the best *Farm and Railroad Fence* in the world for the following reasons, viz: Its **simplicity, strength, durability, convenience, safety, neatness and cheapness.**

SIMPLICITY.

The **Barnes Iron Fence** by an ingenious contrivance, fully covered by Letters Patent, is constructed of only three pieces, the post and rail—which lock firmly and securely together without the aid of wedges, bolts, nuts, plugs, or any other part—and the brace. The posts, being sharpened at the lower ends, are driven into the soil; the rails are flat, and locked into the posts—continuously; the braces are only used where the fence begins and ends, and at the corners, and the whole stands a perfectly rigid and united structure, exceedingly neat and attractive.

STRENGTH.

The construction of this fence is perfect; the rails are provided with lugs and tongues which fit into ingeniously constructed slots in the posts, and bear against and inject into the opposite faces of the posts so as to lock the rails and posts firmly together, thus securing a very rigid and strong fence; being locked together as it is at each post, it makes one united structure from one end to the other, each post and rail rendering its full support to the others, making it impossible for the fence to sag, lean or be blown over; it will withstand a lateral pressure at any given point of over five tons in any ordinary soil; no team of horses hitched to the fence can pull it over.

DURABILITY.

The entire fence is made of iron, which will last for fifty years or more. There is no wood to *rot* or *burn*. After the fence is set up there are no repairs to be made, no broken or decayed posts and rails to be replaced. Frost will not affect it; the elements will not injure it.

CONVENIENCE.

It is portable and easily handled; it can be moved from place to place, however great the distance, without injury. It can be set and reset indefinitely, and is as good and perfect after being taken apart as it was when entirely new. It can be erected very much more rapidly than other kinds of fence, as their are no post holes to dig, no nails to be driven, no wire to be stretched, nor any mechanical work to be done, which takes time and means expense. The rails can be detached by man, but it would be utterly impossible for stock to remove or displace them in any way after the fence has been erected.

SAFETY.

The **Barnes Iron Fence** affords complete safety to stock. They cannot hurt themselves on or against it, as is continually being done where thin, sharp, ribbon or barb wire is used. All this suffering and loss of money can be prevented by using our fence.

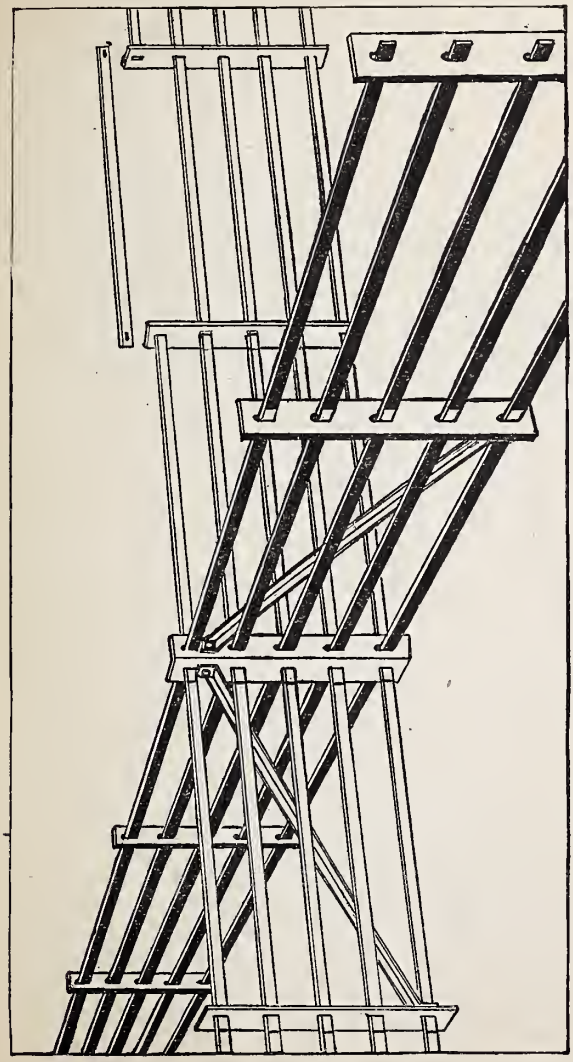
Another feature is that our fence can be made any desired height; the rails can be made light or heavy, and put as close as any one may wish them, so that it is adapted to all kinds of fencing, and the enclosure will be entirely safe.

NEATNESS.

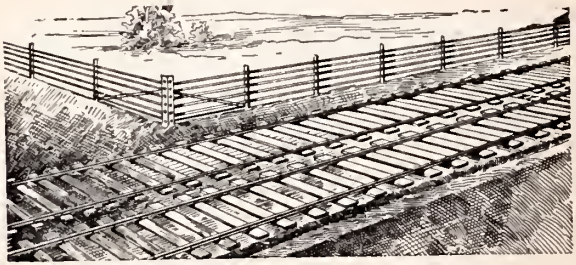
When this fence is properly erected, it stands in a perfectly straight line; there is no leaning, bulging or sagging; the rails enter the centre of the posts, so that both sides of the fence look exactly alike, thus presenting a most attractive and neat appearance.

CHEAPNESS.

The simplicity of construction of our fence, its lasting qualities, safety, neatness, and a comparison of our prices, will convince any intelligent man that it is the CHEAPEST AND BEST PRACTICAL FENCE IN THE WORLD.



The Barnes Fence is especially adapted for fencing along Railroods, and is the best Fence for Farms and Ranches now in use.



LIST AND SIZE OF STANDARD FARM, RANCH AND RAILROAD FENCES.

SIZE No, 1.

Rails ½ x ⅛ in. x 5 ft. 6 in. long, five to the panel.

Posts 1 x ¼ in. x 6 ft. 2 in. long.

SIZE No. 2.

Rails ⅝ x ⅛ in. x 5 ft. 6 in. long, five to the panel.

Posts 1⅛ x ¼ in. x 6 ft. 2 in. long.

SIZE No. 3.

Rails ¾ x ¼ in. x 5 ft. 6 in. long, five to the panel.

Posts 1¼ x ¼ in. x 6 ft. 2 in. long.

SIZE No. 4.

Rails ⅞ x ⅛ in. x 5 ft. 6 in. long, five to the panel.

Posts 1⅛ x ¼ in. x 6 ft. 2 in. long.

Terms cash on receipt of bill of lading.

INSTRUCTIONS
FOR SETTING UP THE FENCE.

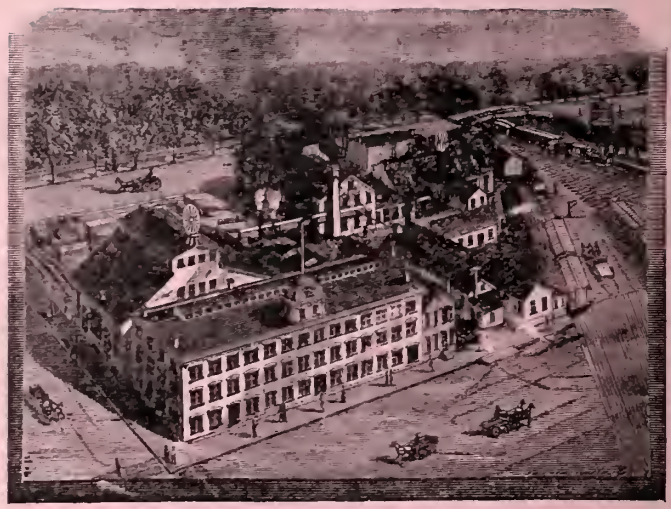
First put in the corner post; be sure to have it plumb; then place a rail in the bottom slot of this post, put a nail opposite the rail in the slot where the other rail would be if the fence were continued on, to hold the rail securely in its place; then drive down a line post until the rail, placed in the bottom slot of the corner and line post, is parallel with the ground, then place the other rails in their respective slots in the posts in the same manner as the first one; then commence the second panel by placing the end of another rail in the bottom slot of the first line post alongside of the rail already there, this is done by elevating one rail into the upper part of the slot, then putting the other rail into the lower part of the slot with the tongues on the outside of their respective rails and clearing the face of the post, then push the elevated rail into the lower part of the slot alongside the other rail and draw the rails so that the tongue on each will fit into the slot provided for it in the post, thus locking the rails and post firmly together; then drive down the second line post and put the other end of the rail into its bottom slot; then put on the brace by first fitting one end on the bottom rail next to the line post of the first panel and the opposite end to the corner post at the hole therein provided; then put in the other rails of the second panel and proceed with the third and remaining panels in like manner. Be careful to keep all the posts plumb and the proper distance apart, and to reverse each alternate line post so that the slots therein will be in proper position to allow the elevation of one rail so as to admit the other, and keep each panel stretched tight as it is put up; before putting in the next corner post be sure that all the slack has been taken up, then put it in and fasten the rails and attach the brace as before directed.

If the ground is very hard, it may be well to dig holes for the corner posts; where this is done, see that the earth is rammed around the posts very tight so that they will stand firm.

When driving the post down, use a block of wood on the top of it, to cushion the sledge blow.

By stretching a cord along the line of the proposed fence and putting in the corner posts directly against it and the line posts one-quarter of an inch from it, the fence when erected will be on a straight line from one end to the other.

In order to get the posts the proper distance from each other, take a piece of board and cut two grooves in it, 5 feet 6 inches apart, inside measurement, each ¼ inch wide and 1½ inches deep, fit one of these grooves on the post already in, and then place the next post in the other groove and drive it down the required distance. Proceed in the same way with the other posts.



View of The Champion Iron Co. Works,
Kenton, Ohio.